

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

Date: 08.03.31	Job No.: 00056	ADR Yes/No: Y	ADR Date: 08.03.31	ECN #: 1164
Product No.: D350-591		Created By: <i>[Signature]</i>	Approved By: <i>[Signature]</i>	
Product Name: Heli-Access-Step		Checked By: <i>[Signature]</i>	General Manager Approval:	

Distribution	Reqd	Resp	Received	Distribution	Reqd	Resp	Received
Production Manager	X	LL	<i>08/04/08</i>	Customer Technical Support	X	DSTOW	<i>08/04/08</i>
Production Engineering Coord	X	EC/DD	<i>08/04/07</i>	Marketing	X	SW	
Director Quality Assurance	X	SS	<i>08.04.08</i>				
Customer Order Processing							

Reason for Change:
Remove abrasion strips on D350-591-311/-312 Heli-Access-Steps. Update D350-591-311/-312. DSI 9410-011 kit was made on ECN ¹¹⁶³~~1164~~

Documents Affected:
Release: Update D350-591-311/-312
(per DSI 9410)

#	Engineering Actions	Reqd	Resp	Notes	Complete
1	Required Documents/Drawings Under Review	Y	KJ	Remove UNDER REVIEW	<i>08.04.08</i>
2	Update Blue/Pink/DSI Folder and Electronic Files	Y	KJ	Add DSI 9410 to standard Blue/Pink file	<i>08.04.08</i>
3	Update D-Part/M-Drawing/DSI/DEO Master Binders	N			
4	Update Grey Project Binder	N			
5	Move Electronic Files	Y	KJ		<i>08.04.08</i>
6	Update Master Document List (MDL)	N			
7	Update Document Record (DR)	N			
8	Create/Update Change Record Form	Y	KJ	D350-591-311/-312 @ CHG 002	<i>08.04.08</i>
9	Create/Update PPP's	Y	KJ	D350-591-311/-312 @ CHG 002	<i>08.04.08</i>
10	Update Controlled PDF Files	Y	KJ	As required	<i>N/A</i>
11	Notify TC/FAA of Change	N			
12	Update QSI 021 and/or STC Approval List	N			
13	Update Product Development Summary	N			
14	Update Accpac Database	Y	KJ	D350-591-311/-312 @ CHG 002	<i>N/A</i>
15	Update Access (ARC) Database	Y	KJ	D350-591-311/-312 @ CHG 002	
16	Update/Verify ARC	Y	KJ	D350-591-311/-312 @ CHG 002	
17	Update Paperwork Kits in Production	Y	KJ	Add DSI 9410 for kits @ CHG 002	<i>08.04.08</i>
18	Update Qpulse/Laminated Dwgs	N			
19	Update Product Compatability Matrix	N			
20	Create Eurocopter Form (FEE)	Y	PH/SS	See ECN 1163 and below	<i>08.04.07</i>
21					

#	Production Actions	Reqd	Resp	Notes	Complete
22	Create/Update Coss IPP/BOM	Y	EC/DD	Update Parts list on D350-591-311/-312 per DSI 9410	<i>08/04/08</i>
23	Update FAI Sheets	N			
24	Create/Update CNC Programs	N			
25	Create/Update Tooling	N			
26	Red Tag Stock (Specify)	N			
27	Rework/Scrap Current Production and/or Stock	Y	LL	Update per DSI 9410 <i>W/O 38471</i>	<i>8/4/14</i>
28	Update Paperwork Kits in Stock	Y	LL	Add DSI 9410 for kits @ CHG 002 <i>W/O 38471</i>	<i>8/4/17</i>
29	Create/Update MPP	N			
30					

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
31	Notify Previous Customers	Y	SW		
32	Notify Eurocopter France	N			
33					

Description / Action:
 - Update to D350-591-311/-312 kits per DSI 9410.
 - Ensure #20 sent to Eurocopter before releasing this ECN

D350-591-311 (7 IN STOCK, 30 IN PROD, (10) B37616, (10) B37795, (10) B37896)
D350-591-312 (1 IN STOCK, 40 IN PROD, (10) B36831, (10) B36717, (10) B37796, (10) B37897)

PARTS LIST FOR D350-591-311/-312 AT CHG 001 (SUPERCEDED BY CHG 002 BELOW)

Qty -311	Qty -312	Part Number	Description
X		D350-591-311	<i>Heli-Access-Step</i> ™, Long Step – High Skid, LH
	X	D350-591-312	<i>Heli-Access-Step</i> ™, Long Step – High Skid, RH
1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4	D2230-3	MOUNTING LUG
2	2	D2618	BUSHING
2	2	D2856-400-720	ABRASION STRIP
2	2	D3235-1	MOUNTING LUG
1	1	D3278-041	SUPPORT ASSEMBLY
2	2	AN3-35A	BOLT
8	8	AN4-13A	BOLT
2	2	AN5-36A	BOLT
4	4	AN960JD10	WASHER
16	16	AN960JD416	WASHER
4	4	AN960JD516	WASHER
2	2	MS21042L3	NUT
8	8	MS21042L4	NUT
2	2	MS21042L5	NUT

REVISED PARTS LIST FOR D350-591-311/-312 AT CHG 002

QTY -311	QTY -312	PART NUMBER	DESCRIPTION
X		D350-591-311	HELI-ACCESS-STEP ™, LONG STEP – HIGH SKID, LH
	X	D350-591-312	HELI-ACCESS-STEP ™, LONG STEP – HIGH SKID, RH
1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4	D2230-3	MOUNTING LUG
2	2	D2618	BUSHING
4	4	D2732-030	CUSHION
2	2	D3235-1	MOUNTING LUG
1	1	D3278-041	SUPPORT ASSEMBLY
2	2	D3595-200-300	CUSHION
2	2	AN3-35A	BOLT
8	8	AN4-15A	BOLT
2	2	AN5-36A	BOLT
4	4	AN960JD10	WASHER
16	16	AN960JD416	WASHER
4	4	AN960JD516	WASHER
2	2	MS21042L3	NUT (OR MS21042-3)
8	8	MS21042L4	NUT (OR MS21042-4)
2	2	MS21042L5	NUT (OR MS21042-5)

DART SERVICE INSTRUCTION

TO AMEND DRAWING D350-591 REV. F

REF. CANADIAN STC: SH92-6

FAA STC: SH967NE

TO IMPROVE THE FIT OF THE D350-591-311/-312 STEPS, INSTALL THE D2732-030 CUSHION (AFT CROSSTUBE) AND D3595-200-300 CUSHION (FWD CROSSTUBE) AS SHOWN IN FIGURE 1 IN PLACE OF THE D2856-400-720 ABRASION CALLED OUT ON DRAWING D350-591 REV. F.

REVISED PARTS LIST FOR D350-591-311/-312 AT CHG 002

QTY -311	QTY -312	PART NUMBER	DESCRIPTION
X		D350-591-311	HELL-ACCESS-STEP™, LONG STEP – HIGH SKID, LH
	X	D350-591-312	HELL-ACCESS-STEP™, LONG STEP – HIGH SKID, RH
1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4	D2230-3	MOUNTING LUG
2	2	D2618	BUSHING
4	4	D2732-030	CUSHION
2	2	D3235-1	MOUNTING LUG
1	1	D3278-041	SUPPORT ASSEMBLY
2	2	D3595-200-300	CUSHION
2	2	AN3-35A	BOLT
8	8	AN4-15A	BOLT
2	2	AN5-36A	BOLT
4	4	AN960JD10	WASHER
16	16	AN960JD416	WASHER
4	4	AN960JD516	WASHER
2	2	MS21042L3	NUT (OR MS21042-3)
8	8	MS21042L4	NUT (OR MS21042-4)
2	2	MS21042L5	NUT (OR MS21042-5)

FOR CUSTOMERS WITH EARLY MODEL D350-591-311/-312 STEPS*, THE DSI 9410-011 STEP MODIFICATION KIT IS AVAILABLE

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9410-011	STEP MODIFICATION KIT
4	D2732-030	CUSHION
2	D3595-200-300	CUSHION
8	AN4-15A	BOLT
16	AN960JD416	WASHER
8	MS21042L4	NUT (OR MS21042-4)





*REMOVE THE INSTALLED D2856-400-720 ABRASION STRIPS IN ACCORDANCE WITH ICA-D350-591.

REFERENCE ONLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 08.03.27
CERT. NO.: SH92-6
ISSUE NO.: 10

A	NEW ISSUE	PH	08.03.27
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED	5	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9410	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		STEP MODIFICATION KIT	NTS
DATE	08.03.27	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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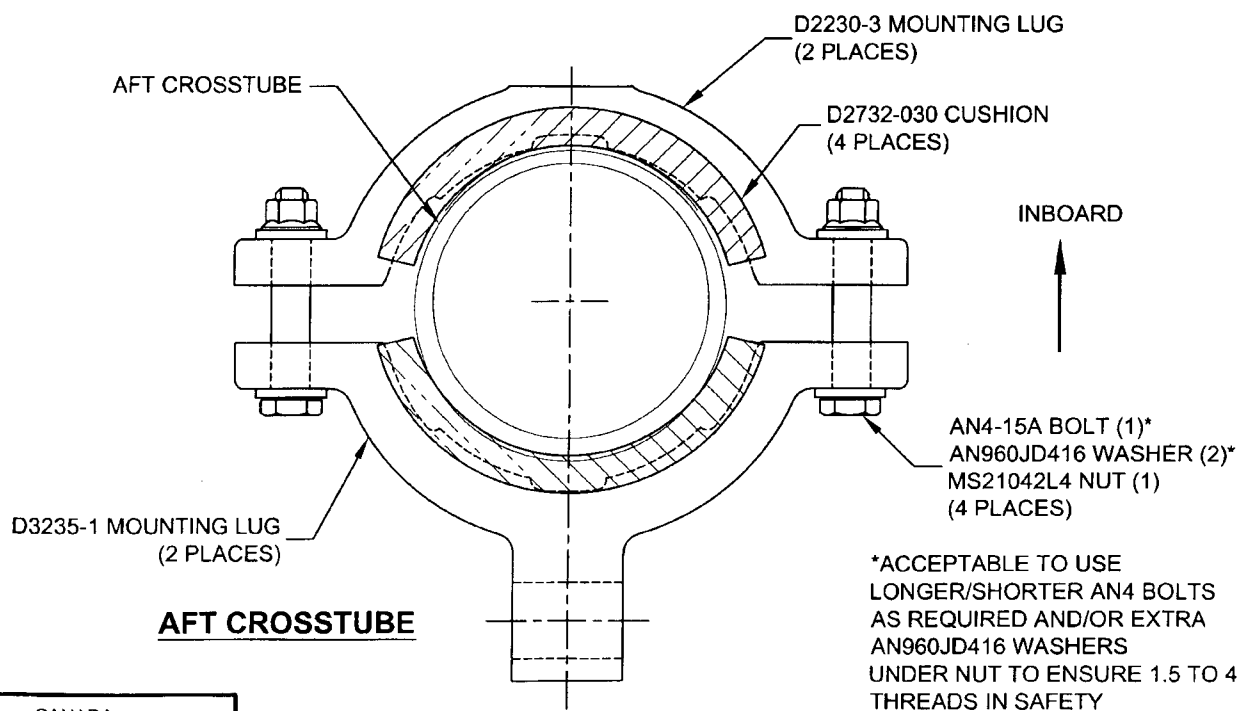
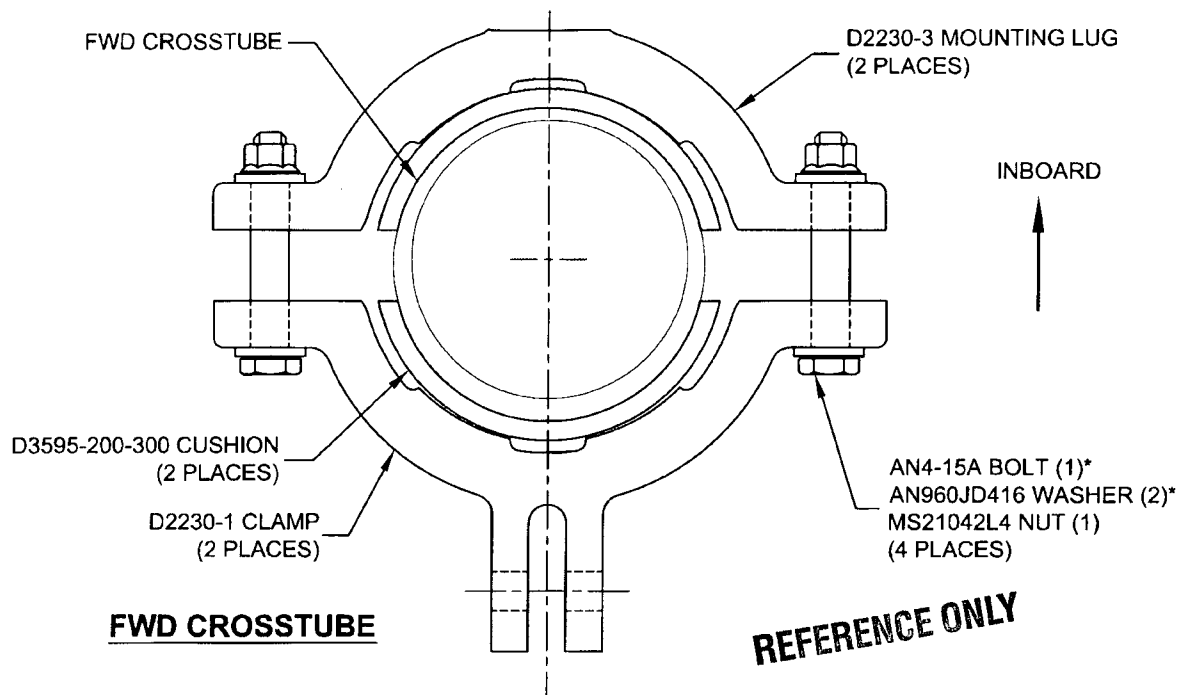


FIGURE 1 - CLAMP/CUSHION INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 08.03.27
CERT. NO.: SH92-6
ISSUE NO.: 10

DESIGN	RA	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RA		
CHECKED	JS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9410	SHEET 2 OF 2
APPROVED	MP	TITLE	SCALE
DE APPR.	MA	STEP MODIFICATION KIT	NTS
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Under Review Notification

Raised By: Peter Hum

Date: 08.04.04

Product #: D350-591-311/-312

Product Name: Heli-Access-Step

Drawing/Kit Number	Drawing/Kit Description	Quantity on Hand (Stock)	Quantity on Order (Production)	Quantity Allocated (Customer Order)	HOLD SHIPMENT	Red Tag/Quarantine Stock	Advise customers	Stop Production	Re-Work Stock	IPP Under Review	Blue File Under Review	ECN #	Instructions
D350-591-311	HELI-ACCESS-STEP	7	30	60					X	X		1164	See below
D350-591-312	HELI-ACCESS-STEP	1	40	55					X	X		1164	See below

Description of issue:

D350-591-311/-312 HELI-ACCESS-STEP IS UNDER REVIEW

Rubber Cushions will replace abrasion strips. DSI 9410 will amend parts list. Update stock and in production per DSI 9410. Will be released on ECN 1164.

Kit will become CHG 002

Distribution:

General Manager

Production Manager

Director Quality Assurance

Design Manager

Chief Engineer

Production Engineering Coordinators

Quality Assurance Coordinator

Quality Control Coordinator

Order Processing

Customer Technical Support

Engineering Project Managers

Engineering Clerk

Marketing